

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	610	(361/23).CQLS.	USPAT; USOCR	OR	OFF	2007/10/30 10:57
S2	61668	motor same controller	USPAT	OR	OFF	2005/10/20 13:47
S3	498	S2 same modular	USPAT	OR	OFF	2005/10/20 13:47
S4	8	S3 same (protect protection protecting)	USPAT	OR	OFF	2005/10/20 13:47
S5	1219	361/23	US-PGPUB; USPAT	OR	OFF	2006/03/18 09:36
S6	14	S5 and (motor with base with mount\$4)	US-PGPUB; USPAT	OR	OFF	2006/03/18 09:36
S7	21	("2953722"   "3417290"   "3519910"   "3600657"   "3727103"   "3931559"   "3953777"   "4034269"   "4068279"   "4091433"   "4117408"   "4286925"   "4290007"   "4420787"   "4642478"   "4703387"). PN. OR ("4972289"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/18 09:44
S8	11	("4319299"   "4492886"   "4701824"   "4862306"). PN. OR ("5170307"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/18 09:49
S9	7	"6099325"	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/18 09:51
S10	0	(modular programmable motor control\$4 unit)	US-PGPUB; USPAT; USOCR	NEAR	OFF	2006/03/18 09:51
S11	1	(modular programmable motor control\$4 unit)	US-PGPUB; USPAT; USOCR	WITH	OFF	2006/03/18 09:55
S12	13	(programmable motor control\$4 protection)	US-PGPUB; USPAT; USOCR	WITH	OFF	2006/03/18 09:55
S13	28	(programmable motor control\$4 protection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 09:56
S14	1	S13 and (short adj1 circuit and overload)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 09:58

S15	7	S13 and (short adj1 circuit or overload)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 10:01
S16	0	S13 and ((short adj1 circuit or overload protection) and (instantaneous near3 trip))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 10:02
S17	0	S13 and ((short adj1 circuit or overload protection) and (magnetic circuit breaker))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 10:02
S18	4	S13 and ((short adj S5 circuit or overload protection) and (magnetic circuit breaker or contactor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 10:03
S19	0	S18 and (soft start machine controller)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	WITH	OFF	2006/03/18 10:03
S20	0	S18 and (soft start machine controller)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	OFF	2006/03/18 10:03
S21	1	((soft start machine controller) and (variable frequency machine drive))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	OFF	2006/03/18 10:04
S22	26247	modular machine or motor controller	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2006/03/18 10:05
S23	26247	(modular machine) or (motor controller)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	OFF	2006/03/18 10:05
S24	0	S23 and ((soft adj2 start) and (variable adj2 frequency))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/18 10:05

S25	1	S22 and ((soft adj2 start) and (variable adj2 frequency)) near3 controller	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	OFF	2006/03/18 10:06
S26	1	("5557182").PN.	USPAT; USOCR	OR	OFF	2006/03/20 10:05
S27	0	("20040252421").PN.	USPAT; USOCR	OR	OFF	2007/06/19 13:27
S28	1	("20040252421").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/19 13:27
S29	1895	low near voltage near detect\$3	US-PGPUB; USPAT	OR	ON	2007/10/11 10:39
S30	264	S29 same threshold same voltage	US-PGPUB; USPAT	OR	ON	2007/10/11 10:39
S31	13	S30 same (zero non \$1zero)	US-PGPUB; USPAT	OR	ON	2007/10/11 10:46
S32	1423	327/143	US-PGPUB; USPAT	OR	ON	2007/10/11 10:54
S33	54	S32 and (low near voltage near (detect\$3))	US-PGPUB; USPAT	OR	ON	2007/10/11 10:55
S34	876	327/143.cols.	US-PGPUB; USPAT	OR	ON	2007/10/11 10:54
S35	37	S34 and (low near voltage near (detect\$3))	US-PGPUB; USPAT	OR	ON	2007/10/11 10:55
S36	5	S35 not S33	US-PGPUB; USPAT	OR	ON	2007/10/11 10:55
S37	933	327/77.cols.	US-PGPUB; USPAT	OR	ON	2007/10/11 11:04
S38	14	S37 and (low near voltage near detect\$3)	US-PGPUB; USPAT	OR	ON	2007/10/11 11:05
S39	341	327/142.cols.	US-PGPUB; USPAT	OR	ON	2007/10/11 11:06
S40	7	S39 and (low near voltage near detect\$3)	US-PGPUB; USPAT	OR	ON	2007/10/11 11:07
S41	701	327/198.cols.	US-PGPUB; USPAT	OR	ON	2007/10/11 11:06
S42	17	S41 and (low near voltage near detect\$3)	US-PGPUB; USPAT	OR	ON	2007/10/11 11:07
S43	166	(motor near protect\$3) same (short adj circuit)	US-PGPUB; USPAT	OR	ON	2007/10/29 17:13
S44	3	((("5684342") or ("5699222") or ("5706153")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/10/29 17:41
S45	33	(motor adj control\$3 adj (unit module)) same (removable replaceable replaceable interchang \$4)	US-PGPUB; USPAT	OR	ON	2007/10/30 14:32

S46	11	S45 and (motor same protect\$3)	US-PGPUB; USPAT	OR	ON	2007/10/30 14:56
S47	2590556	((multifunction\$3 interchangeable (module unit)))	US-PGPUB; USPAT	OR	ON	2007/10/30 14:57
S48	0	((multifunction\$3 adj interchangeable adj (module unit)))	US-PGPUB; USPAT	OR	ON	2007/10/30 14:57
S49	0	((multifunction\$3 near interchangeable near (module unit)))	US-PGPUB; USPAT	OR	ON	2007/10/30 15:00
S50	114	((module unit) same (control\$4) same ((different near function \$3) (multifunction\$3)) same (interchangeable interchangeable replaceable replaceable removable))	US-PGPUB; USPAT	OR	ON	2007/10/30 15:05
S51	28	S50 and motor	US-PGPUB; USPAT	OR	ON	2007/10/30 15:13
S52	56044	motor same protect\$3	US-PGPUB; USPAT	OR	ON	2007/10/30 15:13
S53	42	S52 and ((control\$4) same (module unit) same (different) same (function \$3) same (interchang\$5 replac\$4))	US-PGPUB; USPAT	OR	ON	2007/10/30 15:25
S54	7165	((module unit) with ((different near function \$5)))	US-PGPUB; USPAT	OR	ON	2007/10/30 15:44
S55	147	S54 with (interchang\$4 replac\$4)	US-PGPUB; USPAT	OR	ON	2007/10/30 15:44
S56	0	S55 and (motor same protect\$4)	US-PGPUB; USPAT	OR	ON	2007/10/30 15:45
S57	35	S55 and (motor )	US-PGPUB; USPAT	OR	ON	2007/10/30 16:04
S58	56044	motor same protect\$3	US-PGPUB; USPAT	OR	ON	2007/10/30 16:07
S59	6850	S58 and (control adj unit \$1)	US-PGPUB; USPAT	OR	ON	2007/10/30 16:06
S60	1	S58 and ((control adj unit \$1) same (interchangeable replaceable removable) same (different near (circuit\$3 function\$4)))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:07
S61	986368	motor	US-PGPUB; USPAT	OR	ON	2007/10/30 16:07

S62	2	S61 and ((control adj unit \$1) same (interchangeable replaceable removable) same (different near (circuit\$3 function\$4)))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:09
S63	6	((control adj unit\$1) same (interchangeable replaceable removable) same (different near (circuit\$3 function\$4)))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:11
S64	161163	motor same ((control adj (unit module)) with (different near circuit\$2) (function\$5))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:12
S65	5156	motor same ((control adj (unit module)) with ((different near circuit\$2) (function\$5)))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:20
S66	1569	S65 and (protect\$4)	US-PGPUB; USPAT	OR	ON	2007/10/30 16:16
S67	48	S66 and (short\$1circuit)	US-PGPUB; USPAT	OR	ON	2007/10/30 16:16
S68	142	motor same (control adj (unit module)) same (multifunction\$5 (different near (function \$5 circuit\$2)))	US-PGPUB; USPAT	OR	ON	2007/10/30 16:22
S69	0	ground fault is type short circuit	US-PGPUB; USPAT; USOCR; FPFS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/06 16:33
S70	0	ground fault type of short circuit	US-PGPUB; USPAT; USOCR; FPFS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/06 16:33
S71	2	ground fault type short circuit	US-PGPUB; USPAT; USOCR; FPFS; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/11/06 16:34
S72	131	ground fault type short circuit	US-PGPUB; USPAT; USOCR; FPFS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:17

S73	3	(motor controller (upgradeable or expandable or scalable) (processor or logic or CPU or computer or microcontroller or microprocessor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:18
S74	167	(motor controller (upgradeable or upgrad \$3 or expand\$4 or scal \$4) (processor or logic or CPU or computer or microcontroller or microprocessor or memory))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:24
S75	42	(motor adj controller (upgradeable or upgrad \$3 or expand\$4 or scal \$4) (processor or logic or CPU or computer or microcontroller or microprocessor or memory))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:27
S76	9	(motor adj controller (upgradeable or expand \$4 or scalable) (processor or logic or CPU or computer or microcontroller or microprocessor or memory))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:32
S77	0	(motor adj controller (upgradeable or expandable or scalable) (process\$3 or logic or CPU or computer or microcontroller or microprocessor or supervis\$3) with memory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	WITH	ON	2007/11/06 17:34
S78	2	(motor adj controller (upgradeable or expandable or scalable) (process\$3 or logic or CPU or computer or microcontroller or microprocessor or supervis\$3) with memory)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/11/06 17:35

S79	0	(motor controller interchangeable processor (expandable or upgradable) (hardware or circuit\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/11/06 17:35
S80	1	(motor control\$3 interchangeable (processor or microcontroller or microprocessor or supervis\$3 or logic or CPU or computer) (different with control\$3 with circuit\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/11/06 17:37
S81	471	((motor with (control\$3 or manag\$4 or supervis \$3 or start\$3) (module or modular or modularized or unit or unitized or unitary) (processor or microcontroller or microprocessor or supervis\$3 or logic or CPU or computer) ((different or additional or other or more) with control\$3 with circuit \$2)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	SAME	ON	2007/11/06 17:39

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